Directions (1-5): Study the following information carefully and answer the given questions.

Three persons sit between S and P. R sits second to the left of P. P, who likes green colour sits fourth to the left of S. Y sits fifth to the right of S. X likes purple colour and sits second to the left of Y. N sits fourth to the right of X. Only four persons sit to the right of N. The one who likes magenta colour sits second to the left of P. T sits second to the left of R. Only four persons sit to the left of T. M, who sits at extreme left end likes yellow colour. T likes orange colour. The one who likes violet colour sits third to the left of S. The one who likes blue colour sits second to the right of Y. Z sits fourth to the right of N and O sits second to the left of Z.

Q1. Who sits at extreme right end?
(a) O
(b) N
(c) Z
(d) P
(e) T

Q2. Who likes Blue Colour?
(a) Y
(b) S
(c) N
(d) T
(e) M

Q3. What is the position of X with respect to P?
(a) Seventh to the right
(b) Fifth to the left
(c) Third to the right
(d) Second to the right
(e) Fourth to the left

Q4. Who sits exactly between N and Z?
(a) X
(b) R
(c) T
(d) O
(e) None of these

Q5. Who likes Magenta colour?
(a) P
(b) S
(c) Y
(d) R
(e) None of these

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Directions (6-10): In these questions, relationships between different elements are shown in the statements. These statements are followed by two conclusions. Give answer

Q6.
Statement:
C>D>E ; B<A=D
Conclusions:
I. C>B
II. E<B

(a) if only conclusion I follows
(b) if only conclusion II follows
(c) if either conclusion I or conclusion II follows
(d) if neither conclusion I nor conclusion II follows
(e) if both conclusions I and II follow

Q7.
Statement:
G ≥ H = E < I ; E ≥ T=U
Conclusions:
I. G>T
II. G=T

(a) if only conclusion I follows
(b) if only conclusion II follows
(c) if either conclusion I or conclusion II follows
(d) if neither conclusion I nor conclusion II follows
(e) if both conclusions I and II follow

Q8.
Statement:
S ≤ T ≤U=V; U<O≥N
Conclusions:
I. T>O
II. V<O

(a) if only conclusion I follows
(b) if only conclusion II follows
(c) if either conclusion I or conclusion II follows
(d) if neither conclusion I nor conclusion II follows
(e) if both conclusions I and II follow

Q9.
Statement:
A<B ≤C=D>E=F
Conclusions:
I. A<D
II. F≤B

(a) if only conclusion I follows
(b) if only conclusion II follows
(c) if either conclusion I or conclusion II follows
(d) if neither conclusion I nor conclusion II follows
(e) if both conclusions I and II follow

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Q10.
Statement:
K=L<M=N; P<O≤M
Conclusions:
I. N<P
II. K<O
(a) if only conclusion I follows
(b) if only conclusion II follows
(c) if either conclusion I or conclusion II follows
(d) if neither conclusion I nor conclusion II follows
(e) if both conclusions I and II follow

Directions (11-15): Study the following information carefully and answer the questions given below:

Twelve people are sitting in two parallel rows containing six people each, in such a way that there is an equal distance between adjacent persons. In row-1, A, B, C, D, E and F are seated and all of them are facing south. In row-2, P, Q, R, S, T and U are seated and all of them are facing north. Therefore, in the given seating arrangement members of each row sits opposite to each other.
Two persons sit between R and T but none of them sits at an extreme end. D is an immediate neighbor of one who is facing R but he does not sit at any end. Three persons sit between R and P. A is an immediate neighbor of the one who is facing P. Three persons sit between E and A. U is an immediate neighbor of S, who does not face D. The one who sits immediate right of Q faces C. F sits second to the left of B.

Q11. Who among the following faces R?
(a) A
(b) B
(c) C
(d) D
(e) E

Q12. Who among the following faces the one who sits immediate right of S?
(a) A
(b) B
(c) C
(d) D
(e) E

Q13. Four among the following five belongs to a same group. Who does not belong to the group?
(a) E
(b) P
(c) B
(d) Q
(e) F

Q14. Who among the following faces B?
(a) P
(b) Q
(c) R
(d) S
(e) T

Q15. Who among the following sits immediate left of Q?
(a) P
(b) R
(c) S
(d) T
(e) No one

Directions (16-20): Study the following information carefully and answer the questions given below:

Eleven boxes A, D, E, F, G, K, M, P, S, Y and Z are placed one above other in vertical direction. Only five boxes are placed above K. Only Four boxes are placed between K and Z. Only one box is placed between Z and P. Only three boxes are placed between P and M. E is placed just above F. Only two boxes are placed between M and F which is placed above M. Four boxes are placed between D and G which is placed below K. S is placed below G. A is placed above Y.

Q16. Which among the following box is second from top?
(a) D
(b) M
(c) Y
(d) A
(e) F

Q17. Which box is placed between box Z and P?
(a) Y
(b) M
(c) S
(d) G
(e) F

Q18. Which box is placed just above and just below box A?
(a) M, K
(b) D, Y
(c) Z, G
(d) D, M
(e) E, A

Q19. If M and G interchange their positions then how many box are placed between M and S in the new arrangement?
(a) one
(b) two
(c) three
(d) four
(e) five

Q20. If F and K interchange their position then which among the following box is placed above K in the new arrangement?
(a) D
(b) E
(c) M
(d) Z
(e) Y

Directions (21-23): Study the following information carefully and answer the given questions.

M is the mother of G. A is married to M. S is the only daughter of M. A is father of F. K is daughter of F. C is mother in law of D, who is married to K.
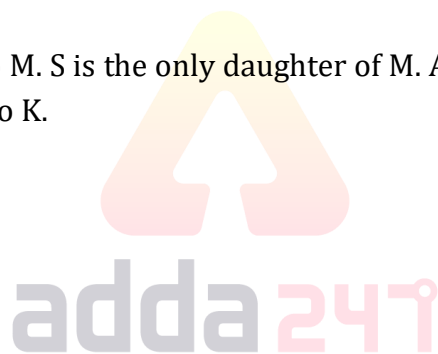
Q21. How is G related to S?
(a) Sister
(b) Daughter
(c) Father
(d) Brother
(e) None of these

Q22. How is A related to C?
(a) Father in law
(b) Sister
(c) Mother
(d) Brother
(e) None of these

Q23. How is M related to F?
(a) Mother
(b) Sister
(c) Daughter
(d) Brother
(e) Cannot be determine

Q24. How many meaningful words will be formed from the second, third, fifth and eighth letters of word "ASPHAUTM" according to the English dictionary. If there is one meaningful word mark answer as second letter from the left end. If more than one word is formed, mark answer as X and If no word is formed mark answer as Z.
(a) X
(b) A
(c) M
(d) P
(e) Z

Q25. If every letter of word "EQUALITY" is changed to next letter. And all letters are arranged in alphabetical order according to the English dictionary. Then What will be fifth letter from the left end.
(a) U
(b) J
(c) F
(d) R
(e) None of these

Directions (26-30): Study the following information carefully and answer the questions given below:

Eight persons A, B, C, D, E, F, G and H sit around a square table. Four of them at each corner facing opposite to center and Four of them at each of the middle side facing center. A sits third to the right of G who sits at one of the middle of the side. One person sit between A and C. E sits opposite to F, who is not an immediate neighbor of G. C is not an immediate neighbor of G. D sits second to the right of F. B sits second to the left of H.

Q26. How many persons sit between B and D when counted from right of D?
(a) one
(b) two
(c) three
(d) four
(e) five

Q27. Who among the following sits opposite to H?
(a) B
(b) D
(c) C
(d) G
(e) A

Q28. If C and F interchange their positions the who among the following sits second to the left of C in the new arrangement?
(a) B
(b) G
(c) E
(d) A
(e) None of these

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Q29. Who sits third to the left of A?
(a) B
(b) G
(c) E
(d) H
(e) None of these

Q30. Who among the following sits exactly between E and G when counted from left of G?
(a) H
(b) F
(c) A
(d) C
(e) None of these

Directions (31-35): Study the following information carefully and answer the questions given below:

Ten persons A, B, C, D, E, F, G, H, J and K lives on 10 different floors of a building. Ground floor is numbered one, the floor above it is numbered two and so on till topmost floor which is numbered ten.
B lives on an odd numbered floor but below floor number 5. Two persons live between B and A. One person live between A and D, who lives above A. There are three floors between the floor on which D lives and the floor on which C lives, who does not live on top floor. floor on which G lives is just above the floor on which H lives. K lives on ground floor. F lives on a floor which is above J but below the floor on which E lives.

Q31. On which among the following floors does E lives?
(a) 2nd
(b) 5th
(c) 7th
(d) 9th
(e) 10th

Q32. Who among the flowing lives on 9th floor?
(a) H
(b) G
(c) E
(d) A
(e) C

Q33. If F and J interchange their floors then who among the following lives just above J?
(a) B
(b) C
(c) E
(d) A
(e) D

Q34. Who among the following lives between A and D?
(a) F
(b) G
(c) E
(d) H
(e) J

Q35. How many persons live between the floors of A and B?
(a) one
(b) two
(c) three
(d) four
(e) five

Directions (36-39): Each of the questions given below consists of a question and two statements numbered I and II. You have to decide whether the data provided in the statements are sufficient to answer the question.

Q36. What is the number of boys in second half of the row?
I. In a row of 36 children, there are 8 boys and 28 girls.
II. In a row of 36 children the first boy is followed by one girl, the second boy is followed by 2 girls, the third boy by 3 girls and so on.
(a) If statement I alone is sufficient to answer the question, but statement II by itself is not sufficient to answer the question.
(b) If statement II by itself is sufficient to answer the question, but statement I alone is not sufficient to answer the question.
(c) If statement either I or II is sufficient to answer the question.
(d) If both the statements I and II taken together are not sufficient to answer the question.
(e) If both the statements I and II taken together are sufficient to answer the question.

Q37. Which among the five movies P, Q, R, S and T is the best?
I. S movie is better than T, P and R movies but not as good as Q movie.
II. S movie is better than R movie but not as good as Q which is better than T movie.
(a) If statement I alone is sufficient to answer the question, but statement II by itself is not sufficient to answer the question.
(b) If statement II by itself is sufficient to answer the question, but statement I alone is not sufficient to answer the question.
(c) If statement either I or II is sufficient to answer the question.
(d) If both the statements I and II taken together are not sufficient to answer the question.
(e) If both the statements I and II taken together are sufficient to answer the question.

Q38. In which month of the year did the construction of the building begin?
I. The construction engineer correctly remembers that the construction began before September but after May and that particular month did not have 31 days.
II. The builder correctly remembers that the construction began after February but before October and the fact that, that particular month did not have 31 days.

(a) If statement I alone is sufficient to answer the question, but statement II by itself is not sufficient to answer the question.
(b) If statement II by itself is sufficient to answer the question, but statement I alone is not sufficient to answer the question.
(c) If statement either I or II is sufficient to answer the question.
(d) If both the statements I and II taken together are not sufficient to answer the question.
(e) If both the statements I and II taken together are sufficient to answer the question.

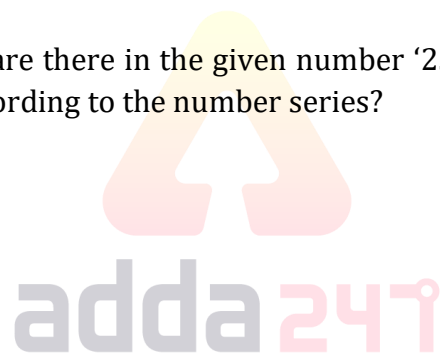**Q39.** What is the code for 'silk' in the code language?
I. In the code language, 'silk is blue ' is written as 'de ra fa'.
II. In the same code language, 'make it silk' is written as 'de ga jo'.
(a) If statement I alone is sufficient to answer the question, but statement II by itself is not sufficient to answer the question.
(b) If statement II by itself is sufficient to answer the question, but statement I alone is not sufficient to answer the question.
(c) If statement either I or II is sufficient to answer the question.
(d) If both the statements I and II taken together are not sufficient to answer the question.
(e) If both the statements I and II taken together are sufficient to answer the question.

Q40. How many such pair of digits are there in the given number '25758461' each of which has as many as numbers in between them as according to the number series?
(a) two
(b) three
(c) five
(d) None
(e) More than five

Q41. Neha gives 60% of her salary to her mother. From her share, her mother spends 40% on grocery and remaining 86400 Rs. she saved. find Neha's salary.
(a) 240000
(b) 280000
(c) 250000
(d) 220000
(e) 244000

Q42. Perimeter of a rectangle is equal to the perimeter of a square whose area is 324 cm^2. Find the area of rectangle if length of rectangle is 6 cm more than the side of square?
(a) 144 cm^2
(b) 256 cm^2
(c) 324 cm^2
(d) 288 cm^2
(e) 196 cm^2

Q43. Ratio of radius of two circle is 7 : 4. What is the ratio of the area of the both circles?
(a) 16 : 23
(b) 7 : 6
(c) 49 : 16
(d) 21 : 8
(e) 15 : 14

Q44. 'A' starts a business with some capital. After 6 months, B joins him with 15000 Rs. A earn an annual profit of 18000 from total profit of 33000. Find A's Initial capital.
(a) 8000
(b) 12000
(c) 14000
(d) 10000
(e) 9000

Q45. Ram invested an amount in scheme which offer 20% C.I. for 2 year. He added 480 Rs. in interest earned and invested the resultant in same scheme for 2 more year. If he earn Rs. 1760 after 4 years. Then find his initial investment. (in Rs.)
(a) 5000
(b) 4000
(c) 8000
(d) 10000
(e) 9000

Q46. X's salary is 20% more than Y's salary and Z's salary $16\frac{2}{3}$% more than X's salary. 30% of Y's salary is what percent of the $28\frac{4}{7}$% of Z's salary.
(a) 75%
(b) 60%
(c) 30%
(d) 50%
(e) 40%

Q47. Veer and Sameer together can do a piece of work in 64 days, Harish and Sameer together can do same work in 48 days. If Harish can do same work alone in 72 days, then find in how many days Harish and Veer can complete work together?

(a) $42\frac{4}{13}\ days$

(b) $40\frac{4}{13}\ days$

(c) $48\frac{4}{13}\ days$

(d) $44\frac{4}{13}\ days$

(e) $38\frac{4}{13}\ days$

Q48. Time taken by a boat to travel a distance upstream to that of downstream is in ratio 5 : 3. If boat can travel 60 km in 4 hr in downstream then find the speed of stream. (in km/hr)
(a) 5
(b) 2
(c) 3
(d) 4
(e) 1

Q49. Two mixture A and B of concentration 4 : 5 and 5 : 7 of milk to water poured into a vessel in the ratio 3 : 4. If milk in final mixture is 72 L then find quantity of water in final mixture.
(a) 96 L
(b) 88 L
(c) 108 L
(d) 72 L
(e) 84 L

Q50. Average weight of a class is 30 kg. 5 student more come whose age is 50 kg and 5 student leave of weight 20 kg. If total number of student in class, initially is 20 then find change percentage in average weight.
(a) 10%
(b) 20%
(c) 25%
(d) 30%
(e) 40%

Directions (51-55): Given table shows the total no. of students in class X and XII of four schools A, B, C and D and % of student passed in these classes in 2017.

School	X		XII	
	Total Student	Pass %	Total Student	Pass %
A	500	80%	600	80%
B	600	70%	550	70%
C	450	50%	500	54%
D	800	60%	600	40%

Q51. No of student passed in class X of school C is what percent less than the no. of student passed in class XII of same school.
(a) $16\frac{2}{3}\%$
(b) 20%
(c) 6%
(d) 30%
(e) 15%

Q52. In 2018 no. of passed student of class XII of school B is increased by 1/7 th and failed student remains same. Find the total strength of class XII of school B in 2018?
(a) 505
(b) 605
(c) 600
(d) 595
(e) none of these

Q53. What is the ratio of Passed student of school D (X and XII) to that of school A (X and XII)
(a) 11:9
(b) 12:11
(c) 9:11
(d) 10:13
(e) 11:18

Q54. What is the average of failed student of class X of school B, C and D.
(a) 234.33
(b) 234.67
(c) 243.67
(d) 241.67
(e) 242.33

Q55. Passed student of class X of school B is how much more than that of class XII of same school.
(a) 35
(b) 45
(c) 55
(d) 56
(e) 23

Directions (56-60): Read the following passage and answer the following questions.

As sum of Rs. 90,000 is to be distributed among 5 person i.e. A, B, C, D and E respectively. Ratio of share of A to share of D is 6 : 5. Difference in share of D and share of C is $11\frac{1}{9}\%$ of total sum of all. Share of D is Rs. 3000 more than share of E. Share of B is $11\frac{1}{9}\%$ more than share of A. Share of C is more than share of D.

Q56. What is the ratio of share of A to share of E.
(a) 7 : 6
(b) 2 : 1
(c) 3 : 2
(d) 4 : 3
(e) 5 : 4

Q57. If A invested its share at SI at the rate of 15% p.a. for two years and D invested its share on CI at the rate of 12% p.a. for same period then find the difference in interest obtained by both.
(a) 1860
(b) 1690
(c) 1754
(d) 1680
(e) 1584

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Q58. Share of C is what percent more or less than share of A.

(a) $38\frac{8}{9}\%$

(b) $36\frac{7}{9}\%$

(c) $37\frac{8}{9}\%$

(d) $38\frac{7}{9}\%$

(e) $39\frac{2}{9}\%$

Q59. What is the ratio of sum of share of A and D together to sum of share of B and E together.
(a) 33 : 29
(b) 33 : 32
(c) 31 : 30
(d) 33 : 31
(e) 31 : 29

Q60. D and E enter into a business in which D invests its share for a year while E invests its share for x months. If E's share of profit is Rs. 30000 out of total profit of 46000 then find the value of x.
(a) 10 months
(b) 9 months
(c) 8 months
(d) 7 months
(e) 6 months

Directions (61-65): What value will come in place of question mark (?) in the given questions:

Q61.
55% of 320 + 88% of 400 = ?
(a) 496
(b) 480
(c) 512
(d) 528
(e) 544

Q62.
$\sqrt{?} = \sqrt{12^2 - 18 \times 9 + 26}$

(a) 4
(b) 8
(c) 64
(d) 16
(e) 10

Q63.
$? \div 27 \times 48 = 288 \div 18 \times 9$
(a) 1
(b) 9
(c) 27
(d) 81
(e) 729

Q64.
$(15)^2 + (?)^2 = 24 \times 22 + 23 \times 6$
(a) 23
(b) 22
(c) 11
(d) 19
(e) 21

Q65.
$? + 312 + (2)^5 = (4)^5 - 17 \times 5$
(a) 575
(b) 585
(c) 595
(d) 605
(e) 615

Q66. Find the total profit on selling 18 articles whose cost price is 25% less than the mark price and a 15% discount is given on each article while selling price of each article is 34.
(a) 90
(b) 72
(c) 54
(d) 108
(e) 81

Q67. Age of Akshay is 75% of the age of Rahul 10 years ago. After 6 year Rahul's age will be 20% more than Akshay's age. Find Akshay present age.
(a) 24
(b) 40
(c) 32
(d) 42
(e) 34

Q68. Rohit decided to invest 21% of his monthly salary in FD. On the day of investing he change his mind and invest 8127 Rs. which was 14% less what he had decided earlier. Find his monthly salary.
(a) Rs.45000
(b) Rs.42000
(c) Rs.40000
(d) Rs.41000
(e) Rs.43000

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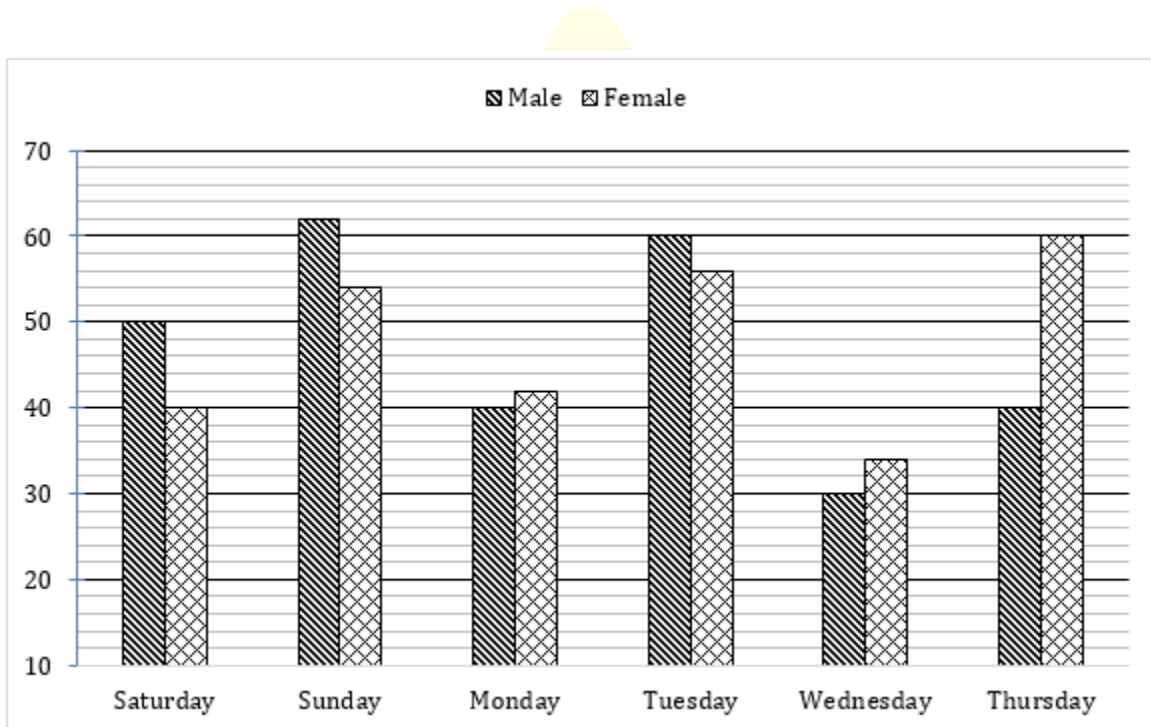
Q69. A train cross a platform in 20 second which is 180 meter long and a man in 8 seconds What time it take to cross a bridge of 240 meter long. (in sec)
(a) 20
(b) 18
(c) 25
(d) 24
(e) 15

Q70. What is the probability of choosing two red ball from a bag which contain 3 blue and 5 yellow and 4 red balls.
(a) 1/11
(b) 3/110
(c) 5/11
(d) 2/11
(e) 4/11

Directions (71-75): The Given Bar Graph shows no. of males and females visiting Goa on 6 days of week

Q71. What is the total no. of male and female who visited Goa on Monday and Thursday together.
(a) 186
(b) 122
(c) 124
(d) 198
(e) 182

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Q72. What is the difference between no. of people who visited Goa on Saturday and on Sunday.
(a) 24
(b) 26
(c) 34
(d) 18
(e) 20

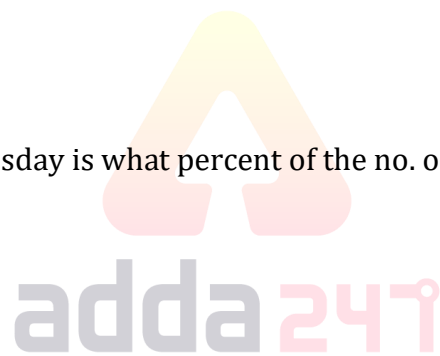**Q73.** Find the average no. of male who visited on Sunday, Monday, Tuesday and Wednesday.
(a) 45
(b) 42
(c) 48
(d) 46
(e) none of these

Q74. If on Friday no. of male who visited increased by 20% as compared to Thursday and no. of female increased by 30% as compared to Thursday. Then find the total no. of people who visited on Friday.
(a) 128
(b) 134
(c) 140
(d) 126
(e) 120

Q75. No. of male who visited on Tuesday is what percent of the no. of female who visited on Thursday?
(a) 100%
(b) 80%
(c) 120%
(d) 110%
(e) 90%

Directions (76-80): In the following series one number is wrong which does not follow the pattern. Find the wrong number.

Q76. 900, 896, 912, 848, 1105, 80
(a) 900
(b) 912
(c) 896
(d) 1105
(e) 848

Q77. 7, 11, 20, 35, 61, 96
(a) 7
(b) 35
(c) 61
(d) 11
(e) 97

Q78. 2, 3, 7, 22, 89, 459
(a) 3
(b) 22
(c) 459
(d) 7
(e) 89

Q79. 2, 4, 12, 48, 240, 1448
(a) 4
(b) 12
(c) 240
(d) 1448
(e) 2

Q80. 2, 3.4, 6.2, 11.8, 25, 45.4, 90.2
(a) 25
(b) 11.8
(c) 45.4
(d) 3.4
(e) 90.2

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